RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/561,121_
Source: _IFWP_
Date Processed by STIC: _1/3/06_

ENTERED

IFWP

RAW SEQUENCE LISTING   DATE: 01/03/2006
PATENT APPLICATION: US/10/561,121   TIME: 11:36:11

     Input Set : F:\54-000250US.ST25.txt
     Output Set: N:\CRF4\01032006\J561121.raw

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 3 <110> APPLICANT: The Scripps Research Institute
 4        Deiters, Alexander
 5        Cropp, T Ashton
 6        Chin, Jason W
 7        Anderson, J Christopher
 8        Schultz, Peter G
10 <120> TITLE OF INVENTION: UNNATURAL REACTIVE AMINO ACID GENETIC CODE ADDITIONS
12 <130> FILE REFERENCE: 54-000250US/PC
14 <140> CURRENT APPLICATION NUMBER: US/10/561,121
14 <141> CURRENT FILING DATE: 2005-12-13
14 <160> NUMBER OF SEQ ID NOS: 104
16 <170> SOFTWARE: PatentIn version 3.3
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 1275
20 <212> TYPE: DNA
21 <213> ORGANISM: Escherichia coli
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30 ttccagcagg cgggccacaa gccggttgcg ctggtaggcg gcgcgacggg tctgattggc    240
32 gacccgagct tcaaagctgc cgagcgtaag ctgaacaccg aagaaactgt tcaggagtgg    300
34 gtggacaaaa tccgtaagca ggttgccccg ttcctcgatt tcgactgtgg agaaaactct    360
36 gctatcgcgg cgaacaacta tgactggttc ggcaatatga atgtgctgac cttcctgcgc    420
38 gatattggca aacacttctc cgttaaccag atgatcaaca agaagcggt taagcagcgt    480
40 ctcaaccgtg aagatcaggg gatttcgttc actgagtttt cctacaacct gttgcagggt    540
42 tatgacttcg cctgtctgaa caaacagtac ggtgtggtgc tgcaaattgg tggttctgac    600
44 cagtggggta acatcacttc tggtatcgac ctgacccgtc gtctgcatca gaatcaggtg    660
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48 ggcggcgcag tctggttgga tccgaagaaa accagcccgt acaaattcta ccagttctgg    780
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52 gaagagatca cgccctgga agaagaagat aaaaacagcg gtaaagcacc gcgcgcccag    900
54 tatgtactgg cggagcaggt gactcgtctg gttcacggtg aagaaggttt acaggcggca    960
56 aaacgtatta ccgaatgcct gttcagcggt tctttgagtg cgctgagtga agcggacttc    1020
58 gaacagctgg cgcaggacgg cgtaccgatg gttgagatgg aaaagggcgc agacctgatg    1080
60 caggcactgg tcgattctga actgcaacct tcccgtggtc aggcacgtaa aactatcgcc    1140
62 tccaatgcca tcaccattaa cggtgaaaaa cagtccgatc ctgaatactt ctttaaagaa    1200
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72 <213> ORGANISM: Escherichia coli
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81              20                  25                  30
84 Pro Ile Ala Leu Tyr Cys Gly Phe Asp Pro Thr Ala Asp Ser Leu His
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88 Leu Gly His Leu Val Pro Leu Leu Cys Leu Lys Arg Phe Gln Gln Ala
89      50                  55                  60
92 Gly His Lys Pro Val Ala Leu Val Gly Gly Ala Thr Gly Leu Ile Gly
93 65                  70                  75                  80
96 Asp Pro Ser Phe Lys Ala Ala Glu Arg Lys Leu Asn Thr Glu Glu Thr
97                  85                  90                  95
100 Val Gln Glu Trp Val Asp Lys Ile Arg Lys Gln Val Ala Pro Phe Leu
101             100                 105                 110
104 Asp Phe Asp Cys Gly Glu Asn Ser Ala Ile Ala Ala Asn Asn Tyr Asp
105             115                 120                 125
108 Trp Phe Gly Asn Met Asn Val Leu Thr Phe Leu Arg Asp Ile Gly Lys
109         130                 135                 140
112 His Phe Ser Val Asn Gln Met Ile Asn Lys Glu Ala Val Lys Gln Arg
113 145                 150                 155                 160
116 Leu Asn Arg Glu Asp Gln Gly Ile Ser Phe Thr Glu Phe Ser Tyr Asn
117                 165                 170                 175
120 Leu Leu Gln Gly Tyr Asp Phe Ala Cys Leu Asn Lys Gln Tyr Gly Val
121             180                 185                 190
124 Val Leu Gln Ile Gly Gly Ser Asp Gln Trp Gly Asn Ile Thr Ser Gly
125             195                 200                 205
128 Ile Asp Leu Thr Arg Arg Leu His Gln Asn Gln Val Phe Gly Leu Thr
129     210                 215                 220
132 Val Pro Leu Ile Thr Lys Ala Asp Gly Thr Lys Phe Gly Lys Thr Glu
133 225                 230                 235                 240
136 Gly Gly Ala Val Trp Leu Asp Pro Lys Lys Thr Ser Pro Tyr Lys Phe
137             245                 250                 255
140 Tyr Gln Phe Trp Ile Asn Thr Ala Asp Ala Asp Val Tyr Arg Phe Leu
141         260                 265                 270
144 Lys Phe Phe Thr Phe Met Ser Ile Glu Glu Ile Asn Ala Leu Glu Glu
145         275                 280                 285
148 Glu Asp Lys Asn Ser Gly Lys Ala Pro Arg Ala Gln Tyr Val Leu Ala
149     290                 295                 300
152 Glu Gln Val Thr Arg Leu Val His Gly Glu Glu Gly Leu Gln Ala Ala
153 305                 310                 315                 320
156 Lys Arg Ile Thr Glu Cys Leu Phe Ser Gly Ser Leu Ser Ala Leu Ser
157             325                 330                 335
160 Glu Ala Asp Phe Glu Gln Leu Ala Gln Asp Gly Val Pro Met Val Glu
161             340                 345                 350
164 Met Glu Lys Gly Ala Asp Leu Met Gln Ala Leu Val Asp Ser Glu Leu
165             355                 360                 365
168 Gln Pro Ser Arg Gly Gln Ala Arg Lys Thr Ile Ala Ser Asn Ala Ile
169     370                 375                 380
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172 Thr Ile Asn Gly Glu Lys Gln Ser Asp Pro Glu Tyr Phe Phe Lys Glu
173 385               390               395               400
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199 ttccagcagg cgggccacaa gccggttgcg ctggtaggcg cgcgacgggg tctgattggc    240
201 gacccgagct tcaaagctgc cgagcgtaag ctgaacaccg aagaaactgt tcaggagtgg    300
203 gtggacaaaa tccgtaagca ggttgccccg ttcctcgatt tcgactgtgg agaaaactct    360
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207 gatattggca aacacttctc cgttaaccag atgatcaaca agaagcggt taagcagcgt     480
209 ctcaaccgtg aagatcaggg gatttcgttc actgagtttt cctacaacct gctgcagggt    540
211 tatagtatgg cctgtttgaa caaacagtac ggtgtggtgc tgcaaattgg tggttctgac    600
213 cagtggggta acatcacttc tggtatcgac ctgacccgtc gtctgcatca gaatcaggtg    660
215 tttggcctga ccgttccgct gatcactaaa gcagatggca ccaaatttgg taaaactgaa    720
217 ggcggcgcag tctggttgga tccgaagaaa accagcccgt acaaattcta ccagttctgg    780
219 atcaacactg cggatgccga cgtttaccgc ttcctgaagt tcttcacctt tatgagcatt    840
221 gaagagatca acgccctgga agaagaagat aaaaacagcg gtaaagcacc gcgcgcccag    900
223 tatgtactgg cggagcaggt gactcgtctg gttcacggtg aagaaggttt acaggcggca    960
225 aaacgtatta ccgaatgcct gttcagcggt tctttgagtg cgctgagtga agcggacttc   1020
227 gaacagctgg cgcaggacgg cgtaccgatg gttgagatgg aaaagggcgc agacctgatg   1080
229 caggcactgg tcgattctga actgcaacct tcccgtggtc aggcacgtaa aactatcgcc   1140
231 tccaatgcca tcaccattaa cggtgaaaaa cagtccgatc ctgaatactt ctttaaagaa   1200
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257 gtggacaaaa tccgtaagca ggttgccccg ttcctcgatt tcgactgtgg agaaaactct    360
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267 cagtggggta acatcacttc tggtatcgac ctgacccgtc gtctgcatca gaatcaggtg    660
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281 gaacagctgg cgcaggacgg cgtaccgatg gttgagatgg aaaagggcgc agacctgatg   1080
283 caggcactgg tcgattctga actgcaacct tcccgtggtc aggcacgtaa aactatcgcc   1140
285 tccaatgcca tcaccattaa cggtgaaaaa cagtccgatc ctgaatactt ctttaaagaa   1200
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297 <220> FEATURE:
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333 aaacgtatta ccgaatgcct gttcagcggt tctttgagtg cgctgagtga agcggacttc   1020
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349 <213> ORGANISM: artificial
351 <220> FEATURE:
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365 gtggacaaaa tccgtaagca ggttgccccg ttcctcgatt tcgactgtgg agaaaactct     360
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369 gatattggca aacacttctc cgttaaccag atgatcaaca aagaagcggt taagcagcgt     480
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375 cagtggggta acatcacttc tggtatcgac ctgacccgtc gtctgcatca gaatcaggtg     660
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383 gaagagatca acgccctgga agaagaagat aaaaacagcg gtaaagcacc gcgcgcccag     900
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/03/2006
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; N Pos. 26,612,618
Seq#:22; N Pos. 403,513,515,518,531
Seq#:23; N Pos. 588
Seq#:26; N Pos. 13,599
Seq#:27; N Pos. 600
Seq#:34; N Pos. 13
Seq#:87; Xaa Pos. 2
Seq#:88; N Pos. 8
Seq#:91; N Pos. 1,14

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29
Seq#:30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53
Seq#:54,55,56,57,58,59,60,61,62,63,66,67,68,69,70,71,72,73,74,75,76,77,78,79
Seq#:80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102
Seq#:103,104

VERIFICATION SUMMARY
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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
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L:845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:600
L:925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:360
L:929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:480
L:967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:540
L:1050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:1068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:540
L:1106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:540
L:1318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:5080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0
L:5099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
L:5150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
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